

What is claimed is:

1. A computational component for performing a method, the method comprising:

selecting a forecast horizon;

determining a first probability related to an availability of at least a first resource

5 within said forecast horizon;

determining a second probability related to said availability of said at least a first resource within said forecast horizon, wherein said first and second probabilities are different from one another;

combining said determined first probability and said determined second

10 probability; and

normalizing a result of said combining said determined first and second probabilities to obtain a probability of arrival within said selected forecast horizon to obtain a first forecast.

2. The method of Claim 1, wherein said first resource comprises a first agent, wherein said first probability comprises a probability that said first agent will complete a talk state within said selected horizon, said first probability derived from a time said agent has been in said talk state and a probability distribution for agent time in said talk

5 state,

and wherein said second probability comprises a probability that said first agent will complete a wrap-up state within said selected time horizon, said second probability derived from a probability distribution for agent time in said wrap-up state.

3. The method of Claim 2, wherein said first probability is determined for an actual time said at least a first agent has been in said talk state, and wherein said second probability is determined for zero time in said wrap-up state.

4. The method of Claim 1, wherein said first resource comprises a first agent, wherein said first probability comprises a combination of a probability that said first agent will complete a talk state within said selected forecast horizon and a probability that said first agent will complete a wrap-up state within said selected forecast horizon, and wherein said second probability comprises a probability that said at least a first agent will complete a total handle time state within said selected forecast horizon.

5. The method of Claim 1, wherein said combining comprises adding said first and second probabilities.

6. The method of Claim 1, wherein said combining comprises calculating a product of said determined first probability and said determined second probability, and wherein said normalizing comprises dividing said product by two.

7. The method of Claim 2, further comprising:
computing a third probability, said third probability comprising a probability that said first agent will arrive within said selected horizon, said probability derived from a time said agent has already spent handling said task and a probability distribution for total agent handle time, wherein said third probability comprises a second forecast;

computing a first variance in agent time in talk state;
computing a second variance in agent time in wrap-up state;
computing a third variance in total agent handle time; and
computing a first ratio, said first ratio comprising a ratio of the third variance to
10 the sum of the first, second and third variances, wherein a measure of the predictability of
using talk and wrap-up time statistics relative to using total handle time statistics is
obtained.

8. The method of Claim 7, further comprising:

determining an a priori probability of completion of said talk state before an
amount of time equal to an amount of time said first agent has been in said talk state has
elapsed;
5 computing a product of said a priori probability and said first ratio to obtain a first
weight;
computing a product of said first weight and said first forecast to obtain a first
weighted forecast;
subtracting said first weight from one to obtain a second weight;
10 computing a product of said second weight and said second forecast to obtain a
second weighted forecast; and
computing a composite forecast by computing a sum of said first weighted
forecast and said second weighted forecast.

9. The method of Claim 1, wherein a probability of arrival is calculated for a plurality of resources.

10. The method of Claim 9, wherein said probabilities of arrival for each of said plurality of resources are combined to obtain said first forecast.

11. The method of Claim 1, wherein said selected forecast horizon comprises a forecast time until an outbound call is completed to a live person.

12. The method of Claim 1, further comprising using said first forecast to determine whether or not to place an outgoing call.

13. The method of Claim 1, wherein said computational component comprises a computer readable storage medium containing instructions for performing the method.

14. The method of Claim 1, wherein said computational component comprises a logic circuit.

15. A method for forecasting arrivals of agents, comprising:

selecting a forecast horizon;

forecasting the number of agents available within said selected horizon, said

forecasting including:

5 determining a probability of completion of talk state for each of a plurality
of agents;

 determining a probability of completion of wrap-up state for each of said
plurality of agents assuming each is at the start of wrap-up;

 combining said determined probability of completion of talk state and said
10 determined probability of completion of wrap-up state to obtain an agent arrival
probability for each of said plurality of agents within said forecast horizon; and

 combining said agent arrival probabilities for each of said plurality of
agents to obtain a first forecast.

16. The method of Claim 15, wherein said combining said agent arrival
probabilities for each of said plurality of agents to obtain a first forecast comprises:

 aggregating a supply of agents as a sum of probabilities of arrival of each
individual agent included in said supply of agents.

17. The method of Claim 15, further comprising initiating an outbound call
when said first forecast indicates an excess supply of agents.

18. The method of Claim 15, wherein said forecast horizon is selected from one of a time corresponding to said predicted time to a live disposition on outbound calls, an amount of time an agent is predicted to be occupied by work having a lower priority than a priority of work comprising servicing an outbound call, and an amount of time
5 required to recall an agent from lower priority work to work comprising servicing an outbound call.

19. The method of Claim 14, wherein said first forecast is provided as an input to a predictive dialer.

20. A work distribution system, comprising:

means for predicting a time to a next work item requiring an agent;

means for accessing a first agent work segment statistic;

means for accessing a second agent work segment statistic;

5 means for determining a first probability of completing said first agent work segment within said predicted time at an elapsed time in said first work segment;

means for determining a second probability of completing said second agent work segment within said predicted time at zero elapsed time in said second work segment; and

10 means for combining said first and second probabilities to obtain an agent arrival probability within said predicted time.

21. The system of Claim 20, further comprising means for combining agent arrival probabilities for each of a plurality of agents to obtain said agent arrival probability within said predicted time.

22. The system of Claim 20, further comprising:

means for accessing a third agent work segment statistic, said third agent work segment spanning said first and second work segments; and

5 means for determining a third probability of completing said third agent work segment within said predicted time at an elapsed time in said third work segment, wherein said means for combining comprises means for combining said first, second and third probabilities to obtain an agent arrival probability within said predicted time.

23. The system of Claim 20, further comprising means for placing outbound calls, wherein said agent arrival probability is provided as an input to said means for placing outbound calls.